



Building Networks For People

DIR-100
Triple Play Router
User Manual

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Before You Start

Please read and make sure you understand all the prerequisites for proper installation of your new Router. Have all the necessary information and equipment on hand before beginning the installation.

Overview

The procedure to install the Router can be described in general terms in the following steps:

1. Gather information and equipment needed to install the device. Before you begin the actual installation make sure you have all the necessary information and equipment.
2. Install the hardware, that is, connect the cables to the device and connect the power adapter.
3. Check the IP settings on your computer and change them if necessary so the computer can access the web-based software built into the Router.
4. Use the web-based management software to configure the device to suit the requirements of your ISP account.

Packing List

Open the shipping carton and carefully remove all items. In addition to this Manual, ascertain that you have:

- DIR-100 Ethernet Broadband Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide
- Manual on CD

If any of the above items are missing, please contact your reseller.



CAUTION: The Router must be used with the power adapter included with the device.

Installation Notes

In order to establish a connection to the Internet it will be necessary to provide information to the Router that will be stored in its memory. For some users, only their account information (User Name and Password) is required. For others, various parameters that control and define the Internet connection will be required.

Internet Connection

The DIR-100 is intended for use with a broadband device such as an ADSL, DSL or cable (CATV) modem. The physical connection to the Internet must first be established through a broadband device, typically this should be set up as an invisible bridge.

Operating Systems

The DIR-100 uses an HTML-based web interface for setup and management. The web configuration manager may be accessed using any operating system capable of running web browser software, including Windows 98 SE, Windows ME, Windows 2000, and Windows XP.

Web Browser

Any common web browser can be used to configure the Router using the web configuration management software. The program is designed to work best with more recently released browsers such as Opera, Microsoft Internet Explorer® version 5.0, Netscape Navigator® version 4.7, or later versions. The web browser must have JavaScript enabled. JavaScript is enabled by default on many browsers. Make sure JavaScript has not been disabled by other software (such as virus protection or web user security packages) that may be running on your computer.

Ethernet Port (NIC Adapter)

Any computer that uses the Router must be able to connect to it through the Ethernet port on the Router. This connection is an Ethernet connection and therefore requires that your computer be equipped with an Ethernet port as well. Most notebook computers are now sold with an Ethernet port already installed. Likewise, most fully assembled desktop computers come with an Ethernet NIC adapter as standard equipment. If your computer does not have an Ethernet port, you must install an Ethernet NIC adapter before you can use the Router. If you must install an adapter, follow the installation instructions that come with the Ethernet NIC adapter.

Installation Information

Print this page and record the listed information here in case you have to re-configure your WAN connection in the future or reset the device configuration settings.

Information you will need from your Internet service provider:		
Username (PPPoE connections)	This is the Username that is used to log on to your Internet service provider's network. It is commonly in the form – user@isp.com.	Record your info here.
Password (PPPoE connections)	This is the Password that is used, in conjunction with the Username above, to log on to your Internet provider's network.	
Internet Connection Type	This is the method that your ISP uses to send and receive data between the Internet and your computer.	
Information you will need about your DIR-100 Ethernet Broadband Router:		
Username	This is the Username you will be prompted to enter when you access the DIR-100 configuration screens using a Web browser. The default Username is admin.	Record your info here.
Password	This is the Password you will be prompted to enter when you access the DIR-100's configuration windows using a Web browser. There is no initial Password.	
LAN IP address of the DIR-100	This is the IP address you will enter into the Address field of your Web browser to access the DIR-100's configuration windows using a Web Browser. The default IP address is 192.168.0.1.	
LAN Subnet Mask of the DIR-100	This is the subnet mask used by the DIR-100, and will be used throughout your LAN. The default subnet mask is 255.255.255.0.	
Information you will need about your LAN or computer:		
DHCP Client status	Your DIR-100 Router is configured, by default, to be a DHCP server. This means that it can assign an IP address, subnet mask, and a default gateway address to computers on your LAN. The range of IP addresses the DIR-100 will assign are from 192.168.0.100 to 192.168.0.199. Your computer (or computers) needs to be configured to Obtain an IP address automatically (that is, they need to be configured as DHCP clients.)	Record your info here.

Introduction

This section provides a brief description of the Router, its associated technologies and a list of Router features.

Router Description and Operation

The D-Link DIR-100 Triple Play Router is designed to provide connectivity for your private Ethernet LAN to share an Internet connection via a broadband technology. The broadband connection may be in any common form including DSL or cable modems.

The DIR-100 is specially configured for use with premium IP services such as VoIP and Movies on Demand. Two ports are configured specially for streaming for VoIP, digital media servers and TV set top controllers. The Triple Play Router is ideally suited for broadband Internet, Video and Voice services over IP.

The DIR-100 is compatible with most popular operating systems, including Macintosh, Linux and Windows, and can be integrated into an existing network.

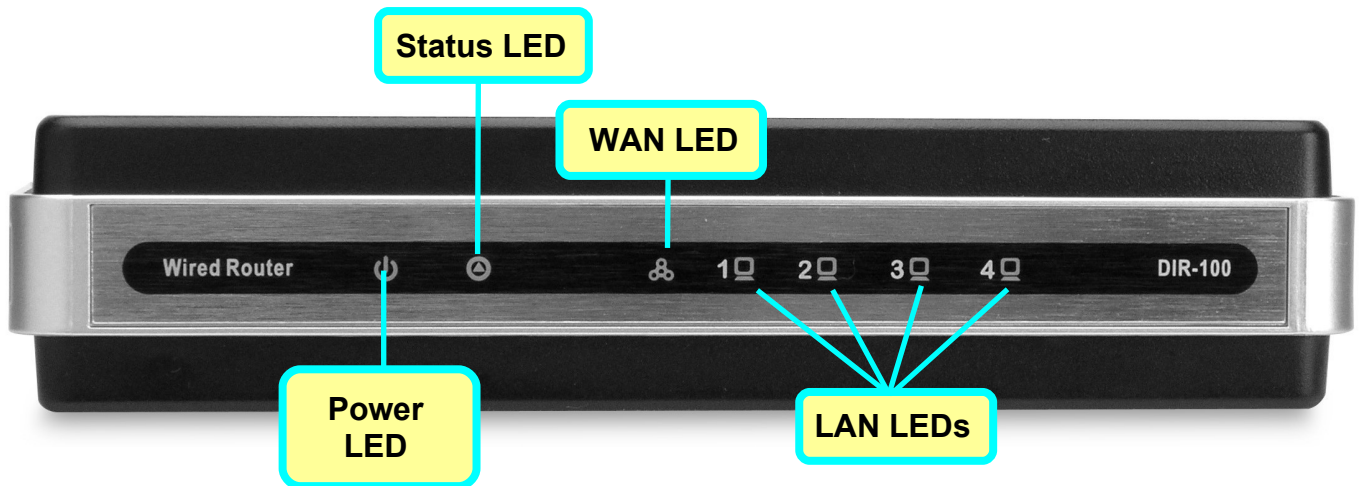
Router Features

The D-Link DIR-100 Triple Play provides the following features:

- **Two VLAN ports** optimized for digital audio/video service.
- **Two NAT Ports** connect multiple computers to share the Internet connection
- **Broadband Modem and IP Sharing** - Connects multiple computers to a Broadband (Cable or DSL) modem to share the Internet connection.
- **Ethernet Switch** - Allows you to quickly and easily share an Internet connection with multiple computers and devices.
- **Advanced Firewall, MAC Filtering, and WebSite Filtering Features** - The Web-based user interface displays a number of advanced network management features including:
- **Web-Based Management** - DIR-100 is configurable through any network computer's web browser using Netscape or Internet Explorer.
- **Port Forwarding Supported** - Enables you to expose WWW, FTP and other services on your LAN to be accessible to Internet users.
- **Special Application Supported** - Special applications requiring multiple connections, like Internet gaming, video conferencing, Internet telephony and so on. The DIR-100 can sense the application type and open a multi-port tunnel for it.
- **DMZ Host Supported** - Allows a networked computer to be fully exposed to the Internet. This function is used when the Special Application feature is insufficient to allow an application to function correctly.

Front Panel

Place the Router in a location that permits an easy view of the LED indicators on the front panel.



The LED indicators on the front panel include the **Power**, **Status**, **WAN**, and **LAN** for the Ethernet ports.

Power	Steady green light indicates the unit is powered on.
Status	This lights steady green when the device is first powered on, then blinks green when the system status is normal, that is, when the device is functioning properly. A prolonged steady green light indicates a problem.
WAN Port	Lights steady green when the WAN (Internet) connection is established and blinks green when there is activity on the WAN port.
LAN Ports	Lights steady green when the LAN (Ethernet) connection is established and blinks green when there is activity on the corresponding LAN port.

Rear Panel

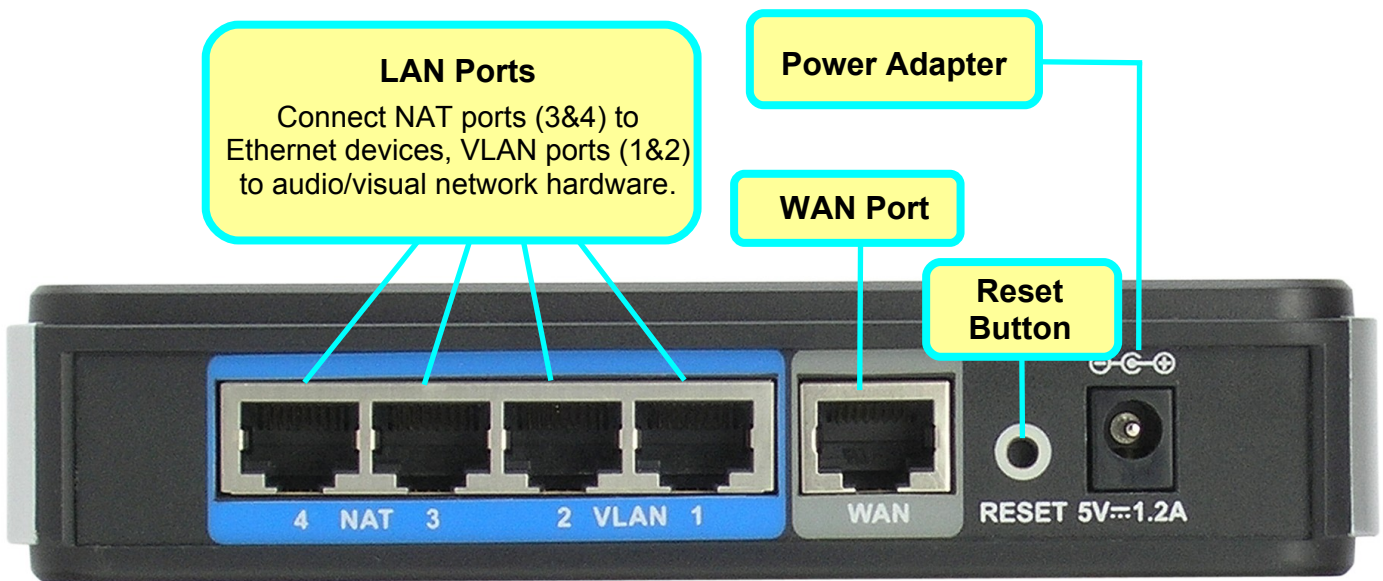
Connect the power adapter cord and network cables on the rear panel. The reset button is also located on the back of the device.



Note: The computer used to manage the computer must be connected to one of the NAT ports (3 or 4) or it will not be able to connect to the Router's management software.



Note: For multiple function on DIR-100, the "NAT" & "VLAN" words will not be seen on the real device.



LAN Ports NAT (#1 and #1) VLAN (#3 and #4)	Connect two NAT ports (3&4) to Ethernet devices such as switches, computers and wireless access points. The computer used to manage the Router must be connected to ports 3or 4 (NAT port). VLAN ports (1&2) are specially configured for premium IP services such as video on demand and VoIP.
WAN	Connect to broadband device such as an ADSL or cable modem.
Power Adapter	Insert power adapter into receptacle and plug into a suitable power source.
Reset Button	Use this to reset the device to default settings including IP settings and administrator access information.



Note: All ports (LAN and WAN) are Auto-MDIX. All ports also automatically connect with straight-through or crossover CAT5 or better Ethernet cable.

Connecting the Router

The Router provides the connection between two networks, a private Ethernet LAN and the public Internet (WAN). Choose a location for the Router where Ethernet devices can be connected to the LAN ports and the WAN port can be connected to the cable modem or DSL modem that provides the broadband Internet connection.

The Router, devices should be protected from dust, water, moisture and heat. Make sure network cables, power adapters and power cords are placed safely out of the way so they do not create a tripping hazard. As with any electrical appliance, observe common sense safety procedures.

Place the Router on a shelf, desktop, or other stable platform. Ideally you should be able to view the LED indicators on the front panel.

Connect Router to Ethernet LAN

The Router can be connected to computers or other Ethernet devices using the four Ethernet LAN ports on the rear panel. Any connection to an Ethernet concentrating device such as a switch or hub must operate at a speed of 10/100 Mbps only. When connecting the Router to any Ethernet device capable of operating at speeds between 10~100Mbps, be sure that the device has auto-negotiation (NWay) enabled for the connecting port. Use standard CAT5 or better Ethernet cable with RJ-45 connectors. The Ethernet LAN ports are auto MDI-II/MDI-X so you can use straight-through or crossover Ethernet cabling. The rules governing Ethernet cable lengths apply to all LAN to Router connections. Be sure the Ethernet cables connected to the LAN ports do not exceed 100 meters in length.

The ports labeled NAT are intended for use by standard Ethernet devices such as switches, wireless access points and computers. There are no special considerations when connecting Ethernet devices to these ports. Make sure the computer used to manage the Router is connected through one of the NAT ports (3 or 4).

Connect VLAN Ports to Audio/Video Network Hardware

The two VLAN ports (1 & 2) are specially configured for direct connection to digital media servers and VoIP equipment or any media device with broadcast/multicast capabilities. All Ethernet LAN ports, including the VLAN ports are configurable for VLAN ID and priority setting. If the VLAN ports are connected to intermediate devices such as a switch, make sure the port is properly configured for VLAN settings, ID and priority settings, and so forth, in order to maintain the optimized configuration along the entire path. For example, if the VLAN ports are connected to a switch port that is on a different VLAN, transmission of any type of data will not be possible.

Power On Router

To power on the Router:

1. Insert the AC Power Adapter cord into the power receptacle located on the rear panel of the Router and plug the adapter into a suitable nearby power source. See the back panel illustration above to view the power receptacle.
2. The Power LED indicator will immediately light green and remain lit. The Status LED should light steady green initially and begin to blink after a few seconds.
3. If you have the Router connected to your network you can look at the Ethernet Link/Act LED indicators to make sure they have valid connections. The Router will attempt to establish the WAN connection, if the WAN line is connected and the connection is properly configured this should light up after several seconds.



CAUTION: The Router must be used with the power adapter included with the device.

Reset

To reset the system settings to factory defaults, please follow these steps:

1. Leave the device powered on, do not disconnect the power.
2. Press the reset button and hold (use a paper-clip). See the back panel illustration above to view the location of the reset button.
3. Keep the button pressed about 4 seconds.
4. Release the button.

The DIR-100 will then automatically reboot itself. Upon restarting the Router will load the factory default configuration settings including the default IP address 192.168.0.1 a subnet mask 255.255.255.0 and the DHCP server active.

Router Configuration

The first time you setup the Router it is recommended that you configure the WAN connection using a single computer making sure that both the computer and the Router are not connected to the LAN. **Connect the computer directly to either NAT port, port 3 or 4** Once the WAN connection is functioning properly, you may continue to make changes to Router configuration including IP settings and DHCP setup. This chapter is concerned mainly with using your computer to configure the WAN connection. Instructions are also provided for basic LAN configuration. The following chapter describes how to set up the advanced features of the Router.



Note: The computer used to manage the router must be connected to one of the NAT ports or it will not be able to connect to the Router's management software.

IP Settings on Your Computer

In order to configure your system to receive IP settings from the Router it must first have the TCP/IP protocol installed. If you have an Ethernet port on your computer, it probably already has TCP/IP protocol installed. See Appendix B for instruction on how to configure Windows computers to be DHCP clients.

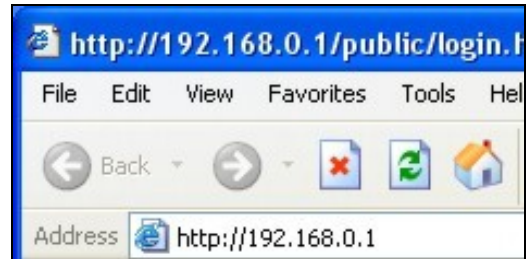
For computers running non-Windows operating systems, follow the instructions for your OS that configure the system to receive an IP address from the Router, that is, configure the system to be a DHCP client.

For computers using manually configured IP settings, make sure the IP address is on the same subnet as the Router. The computer should use an IP address in the range 192.168.0.2 to 192.168.0.254 with a subnet mask of 255.255.255.0.

Accessing the Configuration Manager

Now that your computer's IP settings allow it to communicate with the Router, you can access the configuration software.

To use the web-based management software, launch a suitable web browser and direct it to the IP address of the Router. Type in **http://** followed by the default IP address, **192.168.0.1** in the address bar of the browser. The URL in the address bar should read: **http://192.168.0.1**. Once entered, the user will be prompted to enter the username and password to access the Configuration Manager, as show below. A new window will appear and you will be prompted for a user name and password to access the web-based manager.



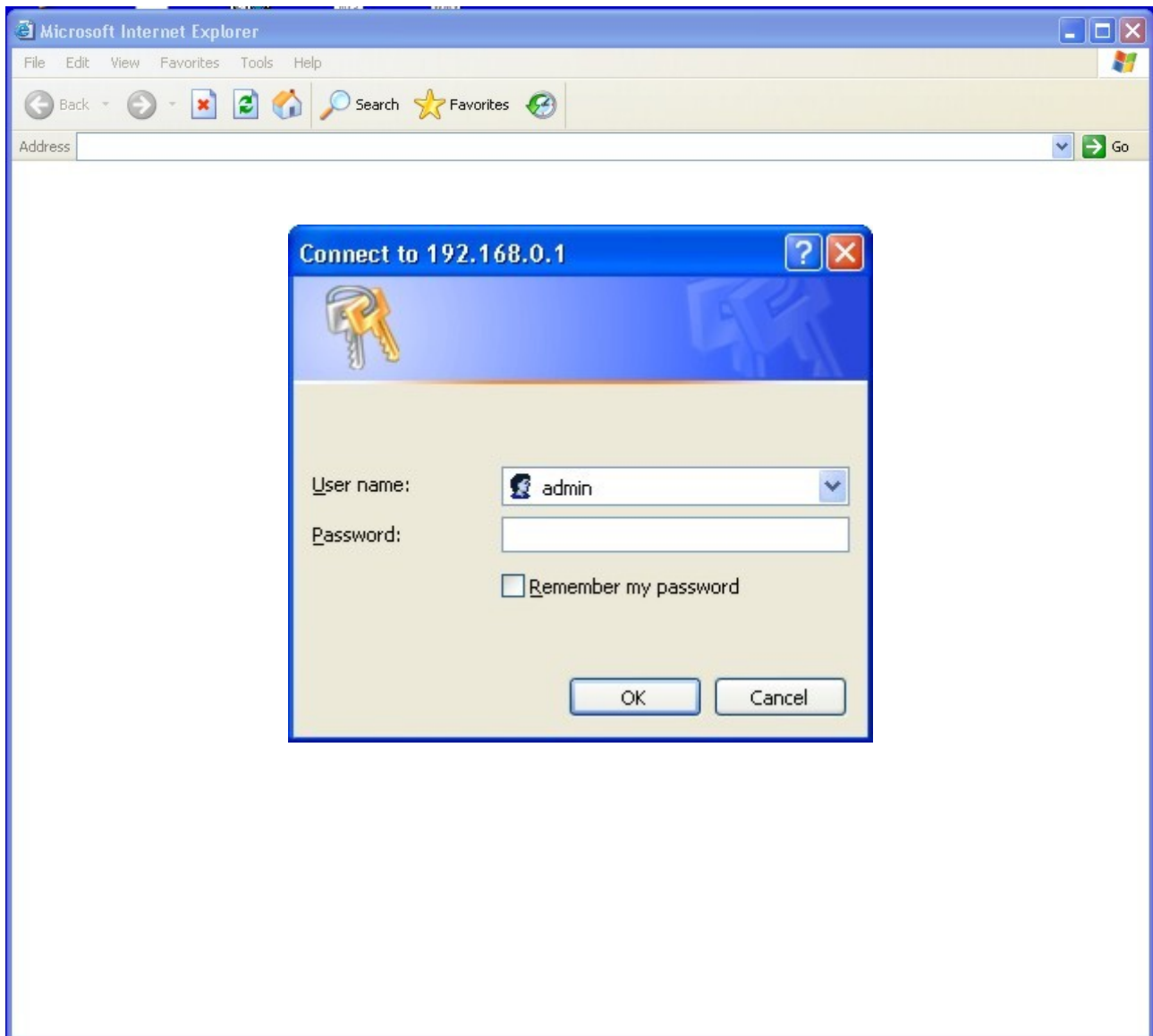
NOTE: The wrong proxy server settings on your browser can prevent connection to the web manager. If you are having trouble connecting to the web interface of the Router, configure the proxy settings to bypass the proxy server or disable use of proxy servers and try to connect again.

To check proxy setting for Windows Internet Explorer:

1. In Windows, click on the **Start** button, go to **Settings** and choose **Control Panel**.
2. In the **Control Panel** window, double-click on the **Internet Options** icon. (Alternatively you can access this **Internet Options** menu using the **Tools** pull-down menu in Internet Explorer.)
3. Click the **Connections** tab and click on the **LAN Settings** button.
4. Verify that the "Use proxy server" option is NOT checked. If it is checked, click in the checked box to deselect the option and click OK.

Log in

Use the default user name “admin” and no password for first time setup. You should change the web-based manager access user name and password once you have verified that a connection can be established. The user name and password allows any PC within the same subnet as the Router to access the web-based manger.



Log in

Web Manager

The Web Manager used for configuration uses directories to organize the various menus used to configure and monitor the Router. The first page that appears after logging in is the System Status display in the System menu directory.

Click to access menu directories:
System, WAN, LAN, NAT, Firewall, Routing and UPnP.

Click to access menu

System Status

INTERNET

WAN Status	Disconnected
WAN IP	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
DNS	168.95.1.1
Secondary DNS	0.0.0.0
Domain Name	
Connection Type	Dynamic IP
Connection Time	00:00:00
Remaining Time	00:00:00

Release Renew

GATEWAY

IP Address	192.168.0.1
Subnet Mask	255.255.255.0
DHCP Server	Enabled
NAT	Enabled
Firewall	Enabled

INFORMATION

System Up Time	00:00:58
System Date	1/1/1970 8:0:58
Connected Clients	0
Runtime Code Version	V1.03b4
Boot Code Version	V0.1.5.24
LAN MAC Address	00:19:5B:D3:C6:EE
WAN MAC Address	00:19:5B:D3:C6:ED

WIRED

System Status display (first page to appear when logged in)

The table below lists the various configuration and display menus found in each menu directory. The page number below the menu directory title is the first page of the description of the menus found in that directory.

Directory	Contents
Wizard Page 11	The setup wizard is used to quickly configure the Internet connection. Use the wizard to configure the Router for PPPoE, Dynamic IP and Static IP Internet connections.
System Page 37	These menus are used for administration and maintenance; menus include: System Status, System Settings, Administrator Settings, Firmware Upgrade, and Configuration Tools.
WAN Page 15	These menus are used for manual configuration of the Internet connection, VLAN configuration and DNS settings; menus include: Connected Type, VLAN Settings and DNS.
LAN Page 21	Use these menus to configure IP settings and DHCP service for the private LAN; menus include LAN Settings and DHCP Client List.
NAT Page 23	These advanced settings menus are used to configure the Router to use applications and protocols that might not be compatible with NAT; menus include Virtual Server, Special Application, Port Mapping, ALG, DMZ and DDNS Settings.
Firewall Page 30	Use these advanced settings menus to control what traffic is allowed or denied through the Router; menus include Firewall Options, Client Filtering and MAC Control.
Routing Page 34	Use the advanced Routing menus to view the contents of the routing table, or to configure static routing static routing and configure the role of the router on the network; menus include Routing Table, Static Routing and Dynamic Routing.
UPnP Page 36	The UPnP Settings is used to enable and configure UPnP and view Port Mapping for UPnP.
Help	An html-based menu with hyperlinks to description of the various menus contained in the web manager.

Internet Setup

The Router's Internet connection can be configured using the Setup Wizard or set up manually. To access the Internet connection Setup Wizard, click on the **Wizard** menu directory and follow the instructions for set up. To configure the Internet connection manually, click on the **WAN** settings directory and configure the **Connection Type** accordingly.

Setup Wizard

To use the Setup Wizard, open the **Wizard** menu directory.

Wizard menu

Enter a **Host Name** and **Domain Name** for the Router, or accept the default names. Choose the **Time Zone** and configure and enable **Daylight Saving** dates where appropriate. Click the **Next** button to go the **WAN Settings** configuration menu.

Click on the type of connection (**Dynamic IP**, **Static IP** or **PPPoE**) used for your Internet service, the configuration menu for the connection type chosen appears. Follow the instructions below according to the type of Internet connection.

Setup Wizard – Configure Dynamic IP Address Connection

For Dynamic IP Address connections, the MAC address of your Ethernet adapter can be copied to the Router. Some ISPs use the unique MAC address of your computer's Ethernet adapter for identification and for IP address assignment (DHCP) when you first access their network. This can prevent the Router (which has a different MAC address) from being allowed access to the ISP's network (and the Internet). To clone the MAC address of your computer's Ethernet adapter, select Enabled for MAC Cloning and click the **Clone MAC Address** button. Click **Next** to continue.

The screenshot shows the D-Link DIR-100 Web UI. The top navigation bar includes tabs for WIZARD, SYSTEM, WAN, LAN, NAT, FIREWALL, ROUTING, UPNP, and HELP. The left sidebar shows the setup progress: 1. Host Settings, 2. WAN Settings (selected), and 3. DNS. Below the sidebar, there is a status section showing 'Internet Offline' with a globe icon and a 'Reboot' button. The main content area is titled 'Wizard' and 'Dynamic IP'. It features a 'MAC Cloning' section with a checkbox labeled 'Enabled' which is currently unchecked. Below this is a 'MAC Address' field displaying six pairs of zeros (00:00:00:00:00:00). A 'Clone MAC Address' button is positioned below the MAC address field. At the bottom right of the wizard area are 'Back' and 'Next' buttons.

DHCP Connection Setting	Description
MAC Cloning	To use MAC Cloning, click to select the Enabled option and click on the Clone MAC Address button.
MAC Address	If you clone the MAC address of your computer to the Router, the MAC address will appear here. This will be the MAC address recorded by the ISP's server when the connection is initiated.
Clone MAC Address	The default MAC address is set to the Internet's physical interface MAC address on the Broadband Router. You can use the Clone MAC Address button to copy the MAC address your computer's Ethernet Card to the Router.

Setup Wizard – Configure Static IP Address Connection

For Static IP Address connection types, you must type in the **IP Address**, **Subnet Mask**, and **ISP Gateway Address**, the ISP provides this information. Click **Next** to continue.

The screenshot shows the D-Link DIR-100 Web UI. At the top is the D-Link logo. Below it is a navigation bar with tabs: DIR-100, WIZARD, SYSTEM, WAN, LAN, NAT, FIREWALL, ROUTING, UPNP, and HELP. The WIZARD tab is selected. On the left side, there is a sidebar with a list of steps: 1. Host Settings, 2. WAN Settings, and 3. DNS. Below the list is a status indicator showing 'Internet Offline' with a globe icon and a 'Reboot' button. The main content area is titled 'Wizard' and 'Static IP'. It contains three rows of input fields: 'IP address assigned by your ISP' with four boxes containing '0', '0', '0', and '0'; 'Subnet Mask' with four boxes containing '255', '255', '255', and '0'; and 'ISP Gateway Address' with four boxes containing '0', '0', '0', and '0'. At the bottom right of the form are 'Back' and 'Next' buttons.

Static IP Connection Setting	Description
IP address assigned by your ISP	The public or global IP address provided by your ISP.
WAN Subnet Mask	The Subnet Mask used for the Internet. This should also be provided by your ISP
WAN Gateway Address	The IP address of the gateway router owned by your ISP. Your ISP should provide this IP address.

Setup Wizard – Configure PPPoE Connection

For PPPoE connections, type in the **User Name** and **Password** used to identify and verify your account to the ISP. Retype the password again and if necessary, type a **Service Name** or domain name. The MTU value Click **Next** to continue.

The screenshot shows the D-Link DIR-100 Setup Wizard interface. The top navigation bar includes tabs for WIZARD, SYSTEM, WAN, LAN, NAT, FIREWALL, ROUTING, UPNP, and HELP. The left sidebar shows the progress: 1. Host Settings, 2. WAN Settings (selected), and 3. DNS. Below the sidebar, there is a status indicator 'Internet Offline' and a 'Reboot' button. The main content area is titled 'Wizard' and 'PPPoE'. It contains the following fields:

- User Name: pppoe_user
- Password: [masked]
- Retype password: [masked]
- Service Name: [empty]
- MTU (546-1492): 1492
- Maximum Idle Time: 300 (seconds)

At the bottom right of the form, there are 'Back' and 'Next' buttons.

PPPoE Setting	Description
User Name	The PPPoE user name used to establish the identity of your ISP account. Typically this is in the form user1234@isp.com - some users may be allowed to select a personalized user name for their account.
Password	Enter the password used to verify the identity of your account. Your ISP may have provided this to you or you might have chosen a personalized password that is easy to remember. The password is case-sensitive, so type the characters exactly as given to you.
Retype Password	Retype the password exactly as entered in the previous field.
Service Name	Enter the Service Name provided by your ISP if necessary (optional).
MTU	This field refers to the Maximum Transfer Unit, which is the maximum size of a packet, in bytes, that will be accepted by the router. The default setting is 1492 bytes. For high bandwidth Internet connections where lag time is generally not a problem, the default MTU should be used.
Maximum Idle Time	This is the time allowed for the PPP connection to remain idle without logging out. This is useful when using an ISP account with a time based fee structure.

WAN Settings

Manual Internet Connection

The Internet connection can be configured manually without using the Setup Wizard. To continue Internet connection settings manually click on the **WAN** menu directory link. The first menu to appear is the Connected Type menu. Select the type of Internet connection and configure it accordingly.

D-Link

DIR-100 WIZARD SYSTEM **WAN** LAN NAT FIREWALL ROUTING UPNP HELP

Connected Type

Internet Offline

Reboot

Connected Type

☒ Dynamic IP Address Obtain an IP address automatically from your service provider.
☐ Static IP Address Uses a static IP address. Your service provider gives a static IP address to access Internet services.
☐ PPPoE PPP over Ethernet is a common connection method used for dialup.

Request IP address

MTU(576-1500) 1500

MAC Cloning ☐ Enabled

MAC Address

Clone MAC Address

OK Cancel

WIRED

WAN Settings – Connected Type menu

Configure the Internet connection according to the type of connection used and click the **OK** button to save and apply the settings.

Dynamic IP Address

A Dynamic IP Address connection configures the Router to automatically obtain its global IP address from a DHCP server on the ISP's network.

To configure a Dynamic IP Address connection, perform the steps listed below.

The screenshot shows the 'Connected Type' configuration window. It has a title bar 'Connected Type' in orange. Below it is a table with three options: 'Dynamic IP Address' (selected with a radio button), 'Static IP Address', and 'PPPoE'. Each option has a description. Below the table are four green-labeled input fields: 'Request IP address' (four empty boxes), 'MTU(576-1500)' (text box with '1500'), 'MAC Cloning' (checkbox labeled 'Enabled'), and 'MAC Address' (two rows of five empty boxes each). Below these is a 'Clone MAC Address' button. At the bottom right are 'OK' and 'Cancel' buttons.

Connected Type	
<input checked="" type="radio"/> Dynamic IP Address	Obtain an IP address automatically from your service provider.
<input type="radio"/> Static IP Address	Uses a static IP address. Your service provider gives a static IP address to access Internet services.
<input type="radio"/> PPPoE	PPP over Ethernet is a common connection method used for dialup.

Request IP address	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
MTU(576-1500)	<input type="text" value="1500"/>
MAC Cloning	<input type="checkbox"/> Enabled
MAC Address	<input type="text" value="00"/> - <input type="text" value="00"/> - <input type="text" value="00"/> - <input type="text" value="00"/> - <input type="text" value="00"/> <input type="text" value="00"/>

Dynamic IP Address connection setup menu

To configure a Dynamic IP Address Internet connection, follow these steps:

1. Click to select the **Dynamic IP Address** option.
2. Leave the **MTU** value at the default setting (default = 1500) unless you have specific reasons to change it.
3. Some ISPs record the unique MAC address of your computer's Ethernet adapter when you first access their network. This can prevent the Router (which has a different MAC address) from being allowed access to the ISP's network (and the Internet) if the Internet connection has already been established. To copy the computer's MAC address to the Router in order to allow access, MAC cloning should be used. Click to select the **Enabled** box if **MAC Cloning** will be used.
4. To clone the computer's MAC address to the Router, click the **Clone MAC Address** button.
5. Click on the **OK** button to save and apply the new Internet connection settings.

Static IP Address

When the Router is configured to use Static IP Address assignment for the Internet connection, you must manually assign a global IP Address, Subnet Mask, and ISP Default Gateway IP address. Most users will also need to configure DNS server IP settings. Follow the instruction below to configure the Router to use Static IP Address assignment for the Internet connection.

Connected Type	
<input type="radio"/> Dynamic IP Address	Obtain an IP address automatically from your service provider.
<input checked="" type="radio"/> Static IP Address	Uses a static IP address. Your service provider gives a static IP address to access Internet services.
<input type="radio"/> PPPoE	PPP over Ethernet is a common connection method used for dialup.

IP address assigned by your ISP	0 . 0 . 0 . 0
Subnet Mask	255 . 255 . 255 . 0
ISP Gateway Address	0 . 0 . 0 . 0
MTU(576-1500)	1500
Does ISP provide more IP addresses?	<input type="checkbox"/> Yes

OK Cancel

Static IP Address connection setup menu

To configure a Static IP type Internet connection, follow these steps:

1. Select the Static IP option.
2. Type an **IP Address**, **Subnet Mask** and **ISP Gateway Address** as supplied by the ISP.
3. Leave the **MTU** value at the default setting (default = 1500) unless you have specific reasons to change it.
4. If using multiple static IP addresses, select the **Yes** option to answer the question **Does ISP provide more IP addresses?** An additional entry field appears to add another IP address. Enter additional static IP addresses and click the **Add** button to add the IP address to the addresses available to the Router.
5. Click on the **OK** button to save and apply the new Internet connection settings.

PPPoE

PPP or Point-to-Point protocol is a standard method of establishing a network connection/session between networked devices. To configure the connection for PPPoE, perform the steps listed below. The information that is to be provided in this window must be given to you by your ISP and must be carefully configured.

Follow the instructions below to configure the Router to use a PPPoE Internet connection.

Connected Type	
<input type="radio"/> Dynamic IP Address	Obtain an IP address automatically from your service provider.
<input type="radio"/> Static IP Address	Uses a static IP address. Your service provider gives a static IP address to access Internet services.
<input checked="" type="radio"/> PPPoE	PPP over Ethernet is a common connection method used for dialup.

User Name	pppoe_user
Password	••••••
Please retype your password	••••••
Service Name	
MTU (546-1492)	1492
Maximum Idle Time (60-3600)	300 (seconds)
Connection Mode	keep-alive

OK Cancel

PPPoE connection setup menu

To configure a PPPoE Internet connection, follow these steps:

1. Select the **PPPoE** option.
2. Type the **User Name** and **Password** used for your account. A typical User Name will be in the form user1234@isp.co.uk Type the password again in **Please retype your password**.
3. Leave the **MTU** value at the default setting (default = 1492) unless you have specific reasons to change it.
4. Choose the desired **Connection Mode**; options are *keep-alive*, used to maintain the connection at all times after it has been established, *auto-connect* to connect every time an Internet connection is attempted from the LAN if it is not already connected, and *manual-on* to establish the PPP connection manually. For manual-on connections, use the **Connection** button on the **System Status** menu to begin the PPP session and use the **Disconnected** button to terminate the PPP session. Auto-connect mode requires an idle timeout. Use the **Maximum Idle Time** field to configure the time in seconds that the Router remains idle without terminating the PPP session.

VLAN Settings

The ports labeled VLAN on the Router, ports 1 and 2, are pre-configured for VLAN and 802.1p priority settings intended to support value added service like VoIP/Video streaming. The VLAN ports, ports 1 and 2, can also be configured separately for priority and VLANs if desired. The NAT ports 3 and 4 are configured in tandem, they have identical PVID (Port VLAN Identifier) and 802.1p priority settings.

The screenshot shows the 'VLAN Settings' window. It has a title bar 'VLAN Settings' in orange. Below it is a section 'User Access Port Settings' containing a table with three columns: 'Port', 'PVID', and '802.1p Priority'. The table has three rows: '1x' with PVID '835' and priority '4', '2x' with PVID '845' and priority '5', and '3x-4x' with PVID '855' and priority '0'. Below the table is a section 'Management Port Setting' with a label 'Management PVID' and a text box containing '834'. At the bottom right are 'OK' and 'Cancel' buttons.

Port	PVID	802.1p Priority
1x	835	4
2x	845	5
3x-4x	855	0

Management PVID: 834

OK Cancel

VLAN Settings menu

The port VLAN identifier or **PVID** is used to indicate membership of the port-based VLAN. VLAN membership in conjunction with priority setting can be used to expedite time sensitive data frames such as video or audio streaming from media servers etc. If the DIR-100 is used on a network with other VLAN supporting devices, such as 802.1Q VLAN switches, it is important to make certain that all the ports on these switches used for VoIP or streaming video are on the same VLAN, that is use the same PVID, and have identical 802.1p priority settings.

The **802.1p Priority** setting for the VLAN ports are used to give high priority to properly 802.1p tagged data frames passing through the port. Since the primary function of these ports is to support voice, audio and video network applications and hardware, the priority setting should be high. Priority tags are given values from 0 to 7 with 0 being assigned to the lowest priority data and 7 assigned to the highest.

The **Management PVID** is used to identify the VLAN from which management instructions are sent. For example, management of a multicast VLAN set up on the network might have a designated management VLAN. This is where IGMP snooping and other broadcast/multicast control and information packets will originate when properly configured on switches that support such management.

DNS Settings

Use the DNS settings menu to set up DNS relay or static DNS service for LAN clients.

DNS	
DNS Proxy	<input checked="" type="checkbox"/> Enabled
Static DNS Server	<input type="checkbox"/> Enable
Domain Name Server (DNS) Address	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
Secondary DNS Address (optional)	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
Search Static DNS Firstly	<input type="checkbox"/> Enabled

OK Cancel

DNS settings menu

Use the **DNS Proxy** option to relay DNS settings automatically from the ISP to properly configured LAN side clients. To use manually configured DNS settings, select the **Static DNS Server** option. To disable all DNS function from the Router, make sure neither option is selected. If both Static DNS and DNS proxy are used, the option to Search Static DNS First can be selected to designate the manually configured DNS server as the preferred DNS server.

LAN Settings

Use the LAN Settings menu to configure the IP settings of the Router and enable the Router's DHCP server. With DHCP enabled, the Router can provide IP settings automatically for 253 clients on the private LAN.

D-Link

DIR-100 WIZARD SYSTEM WAN LAN NAT FIREWALL ROUTING UPNP HELP

LAN Settings

DHCP Client List

Logout

Internet Offline

Reboot

LAN Settings

IP Address: 192 . 168 . 0 . 1

Subnet Mask: 255.255.255.0

The Gateway acts as DHCP Server: ☒ Enabled

IP Pool Starting Address: 192.168.0. 2

IP Pool Ending Address: 192.168.0. 254

Lease Time: One day

OK Cancel

LAN Settings

the router IP address to LAN. The factory fault setting is 192.168.0.1. You can change it according to your requirements.

DHCP

TCP/IP protocol setting include IP address, subnet mask, gateway and DNS server. It is not very easy to Config TCP/IP protocol correctly for all computers in your Lan. Fortunately, the DHCP server provide this function. If you employ this DHCP server function you can let it Config TCP/IP protocol automatically

LAN Settings menu

Type the new **IP Address** and click the **OK** button configure a new IP address of the Router. If DHCP is enabled, the Router's IP address will be the base address for the pool of available IP addresses. The Router's Subnet Mask is not configurable by the user.

DHCP is enabled by default. To stop DHCP service click to remove the check form the **Enabled** box for **Gateway acts as DHCP server**.

The DHCP pool of available IP addresses is configured entering a range of IP addresses for DHCP. Type the last segment of the **Starting Address** and **Ending Address** to define the DHCP pool. Choose the **Lease Time** allowed for clients to hold an assigned IP address.

Click the **OK** button to apply and save the new LAN IP settings. The configurable IP pool for DHCP changes automatically to accommodate a change in the Router's IP address.

DHCP Clients List

The DHCP Client List displays active DHCP clients. To reserve a Static IP address for a DHCP client on the list, click the Static option box for the client, it will appear in the Static Client menu. Click the **OK** button to assign the IP address as a Static IP address. This will remove the IP address from the available pool of IP addresses used for DHCP.

The screenshot shows a web interface for managing DHCP clients. At the top is a yellow header bar with the text "DHCP Client List". Below the header is a table with the following columns: Host Name, IP Address, MAC Address, Remaining Time, and Static. A "Refresh" button is located to the right of the table. The table contains one row with the following data: Host Name (empty), IP Address (192.168.02), MAC Address (5F:44:48:43:50:5F), Remaining Time (00:00:56), and Static (checkbox). Below the table is a section titled "Static client" with three input fields: Host Name, IP address (pre-filled with 192.168.0), and MAC Address (pre-filled with six empty boxes separated by colons). An "Add" button is located below the MAC Address field. At the bottom right of the interface are "OK" and "Cancel" buttons.

Host Name	IP Address	MAC Address	Remaining Time	Static
	192.168.02	5F:44:48:43:50:5F	00:00:56	<input type="checkbox"/>

Static client

Host Name:

IP address: 192.168.0

MAC Address: : : : : :

DHCP Clients list and Static IP menu

To manually configure a Static IP address assignment for a DHCP client that is not currently listed, type the last segment of the **IP address**, the **MAC Address** and **Host Name** of the client in the entry fields provided and click on the **Add** button.

Advanced Settings

Configuration menus contained in the NAT Settings, Firewall, Routing and UPnP menu directories are used to configure the more advanced network settings. These menus are described in the next few sections.

NAT Settings

The NAT Settings menus are used to configure single, multiple and trigger port forwarding as well DDNS and DMZ setup. The ALG menu is used to configure pass-through for commonly used network applications that conflict with NAT.

D-Link

DIR-100 WIZARD SYSTEM WAN LAN NAT FIREWALL ROUTING UPNP HELP

Virtual Server

Special Application

Port Mapping

ALG

DMZ

DDNS Settings

Logout

Internet Offline

Reboot

Virtual Server

	Private IP	Private Port	Type	Public Port	Comment	Enabled
1.	192.168.0.		TCP			<input type="checkbox"/>
2.	192.168.0.		TCP			<input type="checkbox"/>
3.	192.168.0.		TCP			<input type="checkbox"/>
4.	192.168.0.		TCP			<input type="checkbox"/>
5.	192.168.0.		TCP			<input type="checkbox"/>
6.	192.168.0.		TCP			<input type="checkbox"/>
7.	192.168.0.		TCP			<input type="checkbox"/>
8.	192.168.0.		TCP			<input type="checkbox"/>
9.	192.168.0.		TCP			<input type="checkbox"/>
10.	192.168.0.		TCP			<input type="checkbox"/>
11.	192.168.0.		TCP			<input type="checkbox"/>
12.	192.168.0.		TCP			<input type="checkbox"/>
13.	192.168.0.		TCP			<input type="checkbox"/>
14.	192.168.0.		TCP			<input type="checkbox"/>
15.	192.168.0.		TCP			<input type="checkbox"/>
16.	192.168.0.		TCP			<input type="checkbox"/>
17.	192.168.0.		TCP			<input type="checkbox"/>
18.	192.168.0.		TCP			<input type="checkbox"/>
19.	192.168.0.		TCP			<input type="checkbox"/>
20.	192.168.0.		TCP			<input type="checkbox"/>

OK Cancel

Virtual Server

If you configure the Eagles Router as a virtual server, remote users accessing services such as Web or FTP at your local site via public IP addresses can be automatically redirected to local servers configured with private IP address. In other words, depending on the requested service (TCP/UDP port number), the Router redirects the external service request to the appropriate server.

NAT Settings – Virtual Server menu

Virtual Server

The Virtual Server menu is used to configure single port forwarding to specified IP addresses on the LAN. Typically this is used to forward requests to LAN side servers from the WAN.

Virtual Server						
	Private IP	Private Port	Type	Public Port	Comment	Enabled
1.	192.168.0.		TCP			<input type="checkbox"/>
2.	192.168.0.		TCP			<input type="checkbox"/>
3.	192.168.0.		TCP			<input type="checkbox"/>
4.	192.168.0.		TCP			<input type="checkbox"/>
5.	192.168.0.		TCP			<input type="checkbox"/>
6.	192.168.0.		TCP			<input type="checkbox"/>
7.	192.168.0.		TCP			<input type="checkbox"/>
8.	192.168.0.		TCP			<input type="checkbox"/>
9.	192.168.0.		TCP			<input type="checkbox"/>
10.	192.168.0.		TCP			<input type="checkbox"/>
11.	192.168.0.		TCP			<input type="checkbox"/>
12.	192.168.0.		TCP			<input type="checkbox"/>
13.	192.168.0.		TCP			<input type="checkbox"/>
14.	192.168.0.		TCP			<input type="checkbox"/>
15.	192.168.0.		TCP			<input type="checkbox"/>
16.	192.168.0.		TCP			<input type="checkbox"/>
17.	192.168.0.		TCP			<input type="checkbox"/>
18.	192.168.0.		TCP			<input type="checkbox"/>
19.	192.168.0.		TCP			<input type="checkbox"/>
20.	192.168.0.		TCP			<input type="checkbox"/>

Virtual Server menu

Enter the destination **Private IP** address on the LAN side, this is the station or server that receives the single port forwarding as defined by the rule. Configure the **Private Port** (LAN side) and port **Type**, the **Public Port** (WAN side) and enter a **Comment** to describe the rule if desired. Rules can be **Enabled** or disabled at any time.

Click **OK** to apply and save the new forwarding rule.

Special Application

The **Special Application** menu is used for trigger port forwarding from the LAN, typically for common network applications using standard ports that trigger the rule created for it when detected.

Special Application						
	Trigger Port	Trigger Type	Public Port	Public Type	Comment	Enabled
1.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>
2.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>
3.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>
4.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>
5.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>
6.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>
7.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>
8.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>
9.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>
10.	<input type="text"/> ~ <input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	TCP <input type="button" value="v"/>	<input type="text"/>	<input type="checkbox"/>

Special Application menu

Configure the **Trigger Port** or range of ports and **Trigger Type** for a rule. Enter the **Public Port** and **Public Type** used for the application. Rules can be **Enabled** or disabled at any time.

Click **OK** to apply and save the new forwarding rule.

Port Mapping

Use port mapping to map public ports to specified servers on the LAN.

Port Mapping						
	Server IP	Mapping Ports	Type	Comment	Enabled	
1.	192.168.0.		TCP		<input type="checkbox"/>	
2.	192.168.0.		TCP		<input type="checkbox"/>	
3.	192.168.0.		TCP		<input type="checkbox"/>	
4.	192.168.0.		TCP		<input type="checkbox"/>	
5.	192.168.0.		TCP		<input type="checkbox"/>	
6.	192.168.0.		TCP		<input type="checkbox"/>	
7.	192.168.0.		TCP		<input type="checkbox"/>	
8.	192.168.0.		TCP		<input type="checkbox"/>	
9.	192.168.0.		TCP		<input type="checkbox"/>	
10.	192.168.0.		TCP		<input type="checkbox"/>	

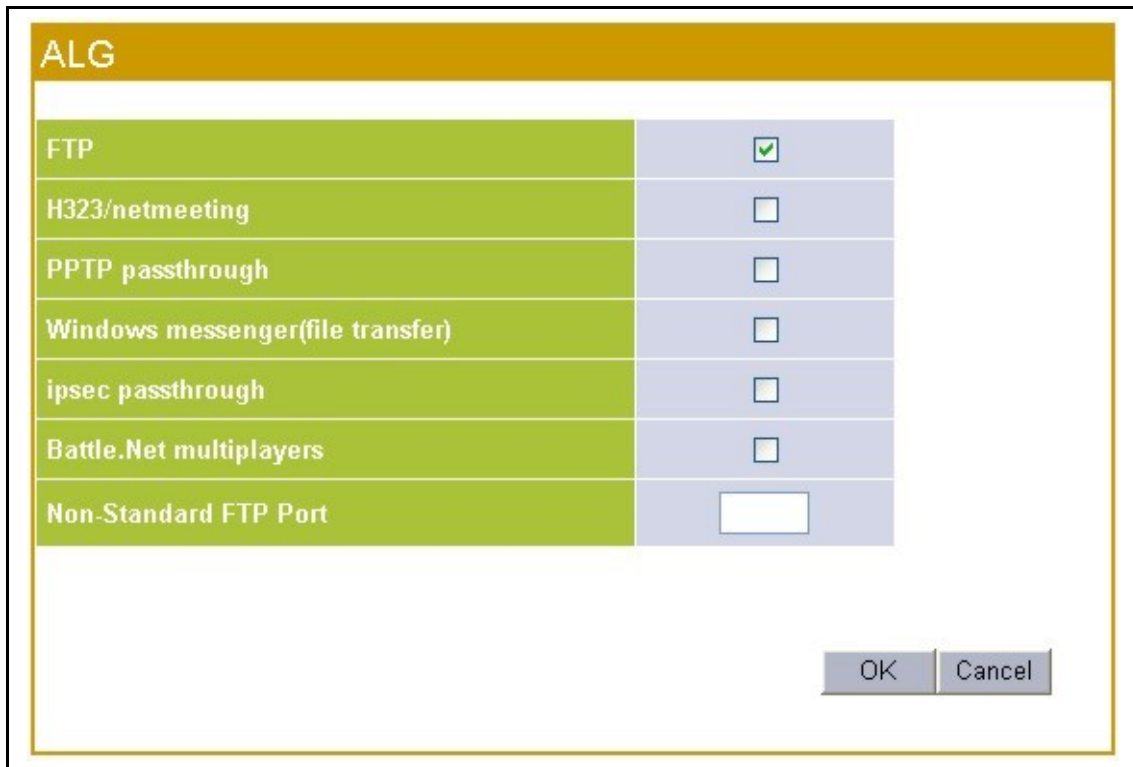
Port Mapping menu

Configure the LAN side **Server IP** address, the **Mapping Port** or range of ports and **Type** for a rule (type a port range using the format xxx-xxx, for example, 4367-4375). Rules can be **Enabled** or disabled at any time.

Click **OK** to apply and save the new forwarding rule.

ALG

The Application Level Gateway menu is used to create pass-through rules for network applications that conflict with NAT.



The screenshot shows the ALG (Application Level Gateway) configuration window. It features a title bar with the text 'ALG'. Below the title bar is a table with two columns: the first column lists various network applications, and the second column contains checkboxes or input fields to enable or configure pass-through rules for each application. The applications listed are FTP, H323/netmeeting, PPTP passthrough, Windows messenger(file transfer), ipsec passthrough, Battle.Net multiplayer, and Non-Standard FTP Port. The 'FTP' row has its checkbox checked. The 'Non-Standard FTP Port' row has an empty text input field. At the bottom right of the window are 'OK' and 'Cancel' buttons.

Application	Pass-through Rule
FTP	<input checked="" type="checkbox"/>
H323/netmeeting	<input type="checkbox"/>
PPTP passthrough	<input type="checkbox"/>
Windows messenger(file transfer)	<input type="checkbox"/>
ipsec passthrough	<input type="checkbox"/>
Battle.Net multiplayer	<input type="checkbox"/>
Non-Standard FTP Port	<input type="text"/>

OK Cancel

ALG menu

Enable any listed pass-through rule by clicking to select the option box for that rule. A non-standard FTP port can be specified. Click the OK button to apply and save the pass-through settings.

DMZ

Firewalls may conflict with certain interactive applications such as video conferencing or playing Internet video games. For these applications, a firewall bypass can be set up using a DMZ IP address. The DMZ IP address is a “visible” address and does not benefit from the full protection of the firewall function.

Public IP Address	IP Address of Virtual DMZ Host	Action
0.0.0.0	192.168.0.	<< Add

DMZ menu

One DMZ IP address can be added for each public IP address. If your ISP account uses one public IP address, then only one DMZ host is allowed.

Click **OK** to apply and save the DMZ host setting.

DDNS Settings

The DIR-100 supports DDNS or Dynamic Domain Name Service. Dynamic DNS allows a dynamic public IP address to be associated with a static host name in any of the many domains, allowing access to a specific host from various locations on the Internet. With this function enabled, remote access to a host will be allowed by clicking a URL hyperlink in the following form: *hostname.dydns.org* Because many ISPs assign public IP addresses using DHCP, it can be difficult to locate a specific host on the LAN using the standard DNS. For example, if you are running a public web server or VPN server on your LAN, DDNS ensures that the host can be located from the Internet if the public IP address changes. DDNS requires that an account be set up with one of the supported DDNS servers.

The screenshot shows the 'DDNS Settings' window. At the top, there are two radio buttons: 'Enabled' (unselected) and 'Disable' (selected). Below this is a table with five rows for configuration. The first row is 'Host Name' with a text input field. The second row is 'DDNS Server' with a pull-down menu showing 'no-ip.com'. The third row is 'User Name' with a text input field. The fourth row is 'Password' with a text input field. The fifth row is 'DDNS Retry Time' with a text input field followed by the word 'hours'. At the bottom right of the window are 'OK' and 'Cancel' buttons.

DDNS Settings	
<input type="radio"/> Enabled <input checked="" type="radio"/> Disable	
Host Name	<input type="text"/>
DDNS Server	no-ip.com ▼
User Name	<input type="text"/>
Password	<input type="text"/>
DDNS Retry Time	<input type="text"/> hours
<div>OK Cancel</div>	

Dynamic DNS menu

To implement Dynamic DNS, first click to select the **Enabled** option and select the **DDNS Server** from the list in the pull-down menu. Next, enter the **Host Name** of the LAN to be accessed, and the **Username** and **Password** for the DDNS account. Click the **OK** button to save changes made. The DDNS Retry is used to update the DDNS server in case the host IP address is changed by the ISP.

Firewall

Configuration menus in the Firewall directory are used to filter or block specific traffic from the WAN side or to deny access to the WAN from the LAN by specified stations based on MAC or IP address.

Firewall Options	
Enable Hacker Attack Protect	<input checked="" type="checkbox"/>
Discard PING from WAN side	<input type="checkbox"/>
Unallow to PING the Gateway	<input type="checkbox"/>
Drop Port Scan Packets	<input checked="" type="checkbox"/>
Allow to Scan Security Port (113)	<input checked="" type="checkbox"/>
Discard NetBios Packets	<input checked="" type="checkbox"/>
Accept Fragment Packets	<input checked="" type="checkbox"/>
Send ICMP packets when error	<input checked="" type="checkbox"/>

Advance Settings

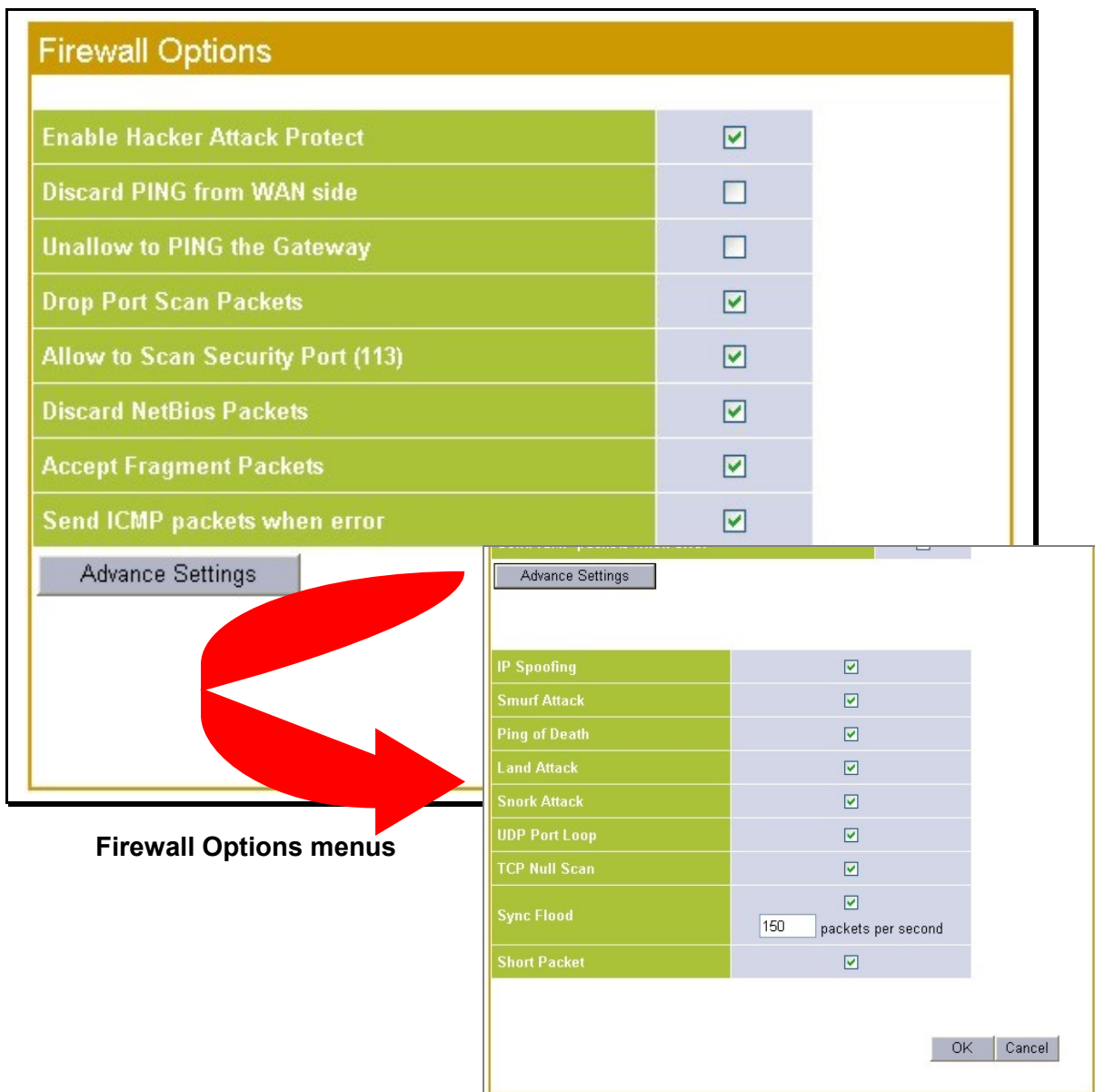
OK Cancel

Firewall Options
Prevent Network Attack
It can protect your network to prevent hackers attack.

Firewall Options

Click to select and enable the Firewall option from the list and click the **OK** button to apply.

Click the **Advanced Settings** button to view more Firewall options.



Client Filtering

Clients on the LAN side can be filtered by IP address using the Client Filtering menu.

Client Filtering

☐ Enable Client Filter

	IP	Port	Type	Block Time	Day	Time	Comment	Enable
1.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>
2.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>
3.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>
4.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>
5.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>
6.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>
7.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>
8.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>
9.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>
10.	192.168.0. ~	~	TCP	<input checked="" type="radio"/> Always <input type="radio"/> Block	<input type="checkbox"/> SUN <input type="checkbox"/> MON <input type="checkbox"/> TUE <input type="checkbox"/> WED <input type="checkbox"/> THU <input type="checkbox"/> FRI <input type="checkbox"/> SAT	0:00am ~ 0:00am		<input type="checkbox"/>

OK

Cancel

Client Filtering menu

To use IP-based client filtering, click to select the **Enable Client Filter** box and configure the rules. For each new filtering rule define the IP address or address range, each rule allows definition of port, port range and port type, if no port is defined the rule will block all traffic. Schedules can be created to block at specified times and/or days. Each rule can be enabled or disabled at any time. Click **OK** to apply and save the new filtering rules.

MAC Control

The MAC Control menu is used to specify MAC addresses that are either denied or allowed WAN access as a group. This is especially for wireless networks.

MAC Control		
MAC Address Control		<input type="checkbox"/> Enabled
Filter out or only accept the following MAC address connect to Internet.		<input checked="" type="radio"/> Filter out <input type="radio"/> Accept
MAC Address	Comment	Action
<input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/> : <input type="text"/>	<input type="text"/>	Manual Setting <input type="button" value="Manual Setting"/> << Add
<input type="button" value="OK"/> <input type="button" value="Cancel"/>		

MAC Control menu

Select a client MAC address from the pull-down menu or type in a MAC address to be added. Click the **Add** button to place the MAC address on the list. Filtering options for MAC addresses are to either **Accept** or **Filter out** (deny) access to the WAN side for the entire list. Click the Enabled box to apply the filter and click the **OK** button to apply and save the MAC filter rules.

Routing

The Routing menus are used to view the routing table and setup static routing.

Destination LAN IP	Subnet Mask	Gateway	Metric	Interface
192.168.0.0	255.255.255.0	192.168.0.0	0	eth3

Routing Table

Click **Refresh** to update the routing table.

Static Routing

Use Static Routing to specify a route used for aggregate traffic distributed to multiple routers within your Ethernet LAN or to route data on the WAN. This is used to specify that all packets destined for a particular network or subnet use a predetermined gateway. Static routing on the WAN is only supported if your WAN connection protocol is not using PPPoE.

Destination LAN IP	Subnet Mask	Gateway	Action
<input type="text"/>	<input type="text"/>	<input type="text"/>	<< Add

Cancel

Static Routing menu

To add a static route to a specific destination IP address, enter a **Destination LAN IP** address, select a suitable **Subnet Mask**, and type in the **Gateway** IP address. Click the **Add** button to create the static route.



Note: Static routes are typically used on enterprise networks where multiple routers are in use. For small networks using a single router, this function is not normally needed.

Dynamic Routing

Use the dynamic routing change the mode of the Router and configure RIP settings.



Note: Networks using the DIR-100 as the only router and gateway device and are not using static routes do not need to change the Dynamic Routing settings.

Dynamic Routing	
Working Mode	<input checked="" type="radio"/> Router <input type="radio"/> Gateway
Listen Mode	Disabled
Supply Mode	Disabled

OK Cancel

Dynamic Routing menu

The **Working Mode** of the Router determines the primary function of the Router on the LAN. The default Dynamic Routing settings are suitable for networks that employ a single router for the LAN that also serves as the gateway router to the WAN. On networks that use multiple routers, it can be advantageous to more clearly define the functions of the Router.

The **Listen Mode** setting should be disabled for single router networks. For networks using multiple routers, this controls how the Router respond to incoming RIP packets. The router will “listen“ for incoming RIP1, RIP2 or or both RIP1 and RIP2 routing information packets.

The **Supply Mode** defines how the Router transmits RIP informatin to other routers.

UPnP

Universal Plug and Play or UPnP is a group of network device control protocols intended to simplify networking for home and small office networks. The UPnP menus are used to enable and configure settings for UPnP.

D-Link

DIR-100 // WIZARD SYSTEM WAN LAN NAT FIREWALL ROUTING **UPnP** HELP

UPnP Settings

UPnP Settings

Enable UPnP ☐ Enabled

UPnP Port Number 1780

Advertise Time (60 - 1800) 1800 seconds

Subscribe Timeout (60 - 1800) 1800 seconds

OK Cancel

UPnP (Universal Plug and Play) allows automatic discovery and configuration of equipment attached to your LAN. UPnP is by supported by Windows ME, XP, or later. It provides compatibility with networking equipment, software and peripherals of the over 400 vendors that cooperate in the Plug and Play forum.

UPnP menu

UPnP enabled devices support zero configuration and automatic discovery. It is useful for peer to peer networking and audio and video network applications and devices on small network environments.

To use UPnP on the Router, click to select the **Enabled** box and click the **OK** button.

The **UPnP Port Number** can be changed to a non-standard port if preferred. The **Advertise Time** is the time the Router will broadcast its service capabilities to newly connected UPnP enabled devices in the discovery phase. **Subscribe Timeout** is the idle time allowed for service to UPnP enabled devices. Any period longer than the timeout with no further requests for service, the service is terminated.

Port Mapping (UPnP)

The UPnP Port Mapping display shows what services are currently active for UPnP.

Port Mapping

Refresh

Remote Host	External Port	Internal Client	Internal Port	Protocol	Duration	Description

Port Mapping display for UPnP

System

The menus in the System directory are used for basic management and maintenance. Tasks such as upgrading firmware and changing the administrator password are done using the System directory menus.

D-Link

DIR-100 // WIZARD **SYSTEM** WAN LAN NAT FIREWALL ROUTING UPNP HELP

System Status

System Status

INTERNET Refresh

WAN Status	Disconnected
WAN IP	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
DNS	168.95.1.1
Secondary DNS	0.0.0.0
Domain Name	
Connection Type	Dynamic IP
Connection Time	00:00:00
Remaining Time	00:00:00

Release Renew

GATEWAY

IP Address	192.168.0.1
Subnet Mask	255.255.255.0
DHCP Server	Enabled
NAT	Enabled
Firewall	Enabled

INFORMATION

System Up Time	00:00:58
System Date	1/1/1970 8:0:58
Connected Clients	0
Runtime Code Version	V1.03b4
Boot Code Version	V0.1.5.24
LAN MAC Address	00:19:5B:D3:C6:EE
WAN MAC Address	00:19:5B:D3:C6:ED

System Status

You can use the Status screen to see the connection status of WAN/LAN interfaces, firmware and hardware version numbers, and the number of connected clients to your network. The following items are included in this screen:

INTERNET - Displays WAN connection type and status.

GATEWAY - Displays system IP settings, as well as DHCP, NAT and Firewall status.

INFORMATION - Displays the number of connected clients, as well as the Router's hardware and firmware version numbers.

Internet Offline

Reboot

WIRED

System Status – Device Information display

System Status

Click the System directory link to view the System Status information display. Use this to find current status information including IP settings for the LAN and WAN, firmware version and MAC address.

System Status

INTERNET

Refresh

WAN Status	Disconnected
WAN IP	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
DNS	168.95.1.1
Secondary DNS	0.0.0.0
Domain Name	
Connection Type	Dynamic IP
Connection Time	00:00:00
Remaining Time	00:00:00

ReleaseRenew

GATEWAY

IP Address	192.168.0.1
Subnet Mask	255.255.255.0
DHCP Server	Enabled
NAT	Enabled
Firewall	Enabled

INFORMATION

System Up Time	00:00:58
System Date	1/1/1970 8:0:58
Connected Clients	0
Runtime Code Version	V1.03b4
Boot Code Version	V0.1.5.24
LAN MAC Address	00:19:5B:D3:C6:EE
WAN MAC Address	00:19:5B:D3:C6:ED

System Status display

If the Internet connection uses DHCP for its WAN IP settings, these IP settings can be renewed or released by clicking on the **Renew** or **Release** buttons below the Internet information.

System Settings

Use the System Settings menu to configure NTP time settings and to enable or disable NAT.

The screenshot shows the 'System Settings' window with a yellow header. It contains a table-like interface with green headers and light blue backgrounds for input fields. The settings are as follows:

Field	Value
Host Name	router
Domain Name	D-Link
NTP Server	(option)
Set Time Zone	(GMT+08:00) Hong Kong, Perth, Singapore, Taipei
Daylight Saving	<input type="checkbox"/> Enabled From: FEB 2 To: FEB 2
NAT	<input checked="" type="checkbox"/> Enabled

At the bottom right, there are 'OK' and 'Cancel' buttons.

System Settings menu

Configure time settings NTP settings and time zone information and click **OK** to apply and save the new settings.

System time is configured from the PC used for management if NTP is not used.

Administrator Settings

The Administrator Settings menu is used to configure login user name and password and to setup remote management of the Router.

Administrator Settings	
User Name	admin
Current Password	•••••••
Password	•••••••
Re-type password	••••••• (3-12 Characters)
Idle Time Out	0 seconds (0: No timeout)
Secured Web Server	<input type="checkbox"/>
Enabled	<input type="checkbox"/>
IP Address	0 . 0 . 0 . 0
Port	81
OK Cancel	

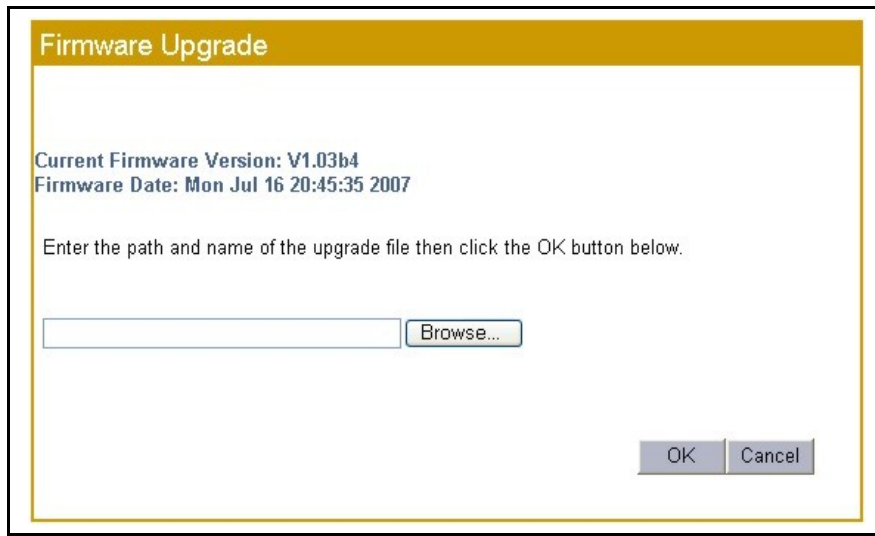
Administrator Settings menu

Configure **User Name** and **Password** used for management access to the Router and click the OK button to apply and save the new administrator account settings.

The Router supports remote management from designated stations on the LAN. To use remote management, click the Enabled and type in the IP address of the system that will be used for management. The port used to access the web manager can also be changed here.

Firmware Upgrade

Make sure the Router has the latest firmware with the **Firmware Upgrade** menu. The firmware version is listed in this menu as well as in the System Status display.



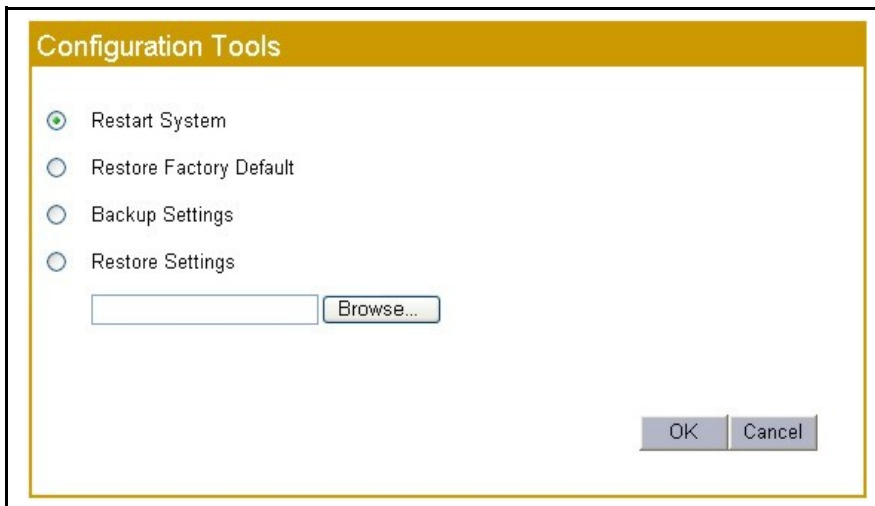
The screenshot shows the 'Firmware Upgrade' window. It has a yellow header bar with the title 'Firmware Upgrade'. Below the header, it displays 'Current Firmware Version: V1.03b4' and 'Firmware Date: Mon Jul 16 20:45:35 2007'. A text prompt says 'Enter the path and name of the upgrade file then click the OK button below.' There is a text input field followed by a 'Browse...' button. At the bottom right, there are 'OK' and 'Cancel' buttons.

Firmware Update

Use the Browse button to locate the firmware file or type the full path and file name in the space provided. Click OK to begin the transfer. Do not turn off the Router during the firmware upgrade process.

Configuration Tools

Use the configuration tools options to perform a simple **Restart System**, **Restore Factory Default** settings, **Backup Settings** to a file on the computer or load a previous saved configuration file from the computer to **Restore Settings**.



The screenshot shows the 'Configuration Tools' window. It has a yellow header bar with the title 'Configuration Tools'. Below the header, there are four radio button options: 'Restart System' (which is selected), 'Restore Factory Default', 'Backup Settings', and 'Restore Settings'. Below these options is a text input field followed by a 'Browse...' button. At the bottom right, there are 'OK' and 'Cancel' buttons.

Save and Restore menu

Select the task to perform and click the OK button to begin. For Restore Settings it is necessary to define the location of the saved configuration file. Use the Browse button or type the full path and file name in the space provided. Do not turn the Router off while configuration settings are being restored.

System Log

The System Log menu is used to view the log and setup notification for the Router.

System Log	
<div>Download Clear Refresh</div>	
<div>[Thu Jan 01 12:36:04 1970]:[LOG] Clear the syslog</div>	
Remote Log	<input type="checkbox"/> Enabled
Send log to	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
Email Log	<input type="checkbox"/> Enabled
Send Email to	<input type="text"/>
SMTP Server	<input type="text"/> . <input type="text"/> . <input type="text"/> . <input type="text"/>
<div>OK Cancel</div>	

System Log menu

System logs can be sent to a remote server or emailed to an email address. Enable and configure the remote log and email log and click **OK** to apply the settings.



Technical Specifications

Standards

- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3u 100Base-TX Fast Ethernet
- IEEE 802.3 Nway Auto-Negotiation
- IEEE 802.1Q VLAN
- IEEE 802.1p Priority

Device Management

Web-Based – requires at least Microsoft Internet Explorer v5 or later, Netscape Navigator v4 or later, or other Java-enabled browsers.

Media Access Control

CSMA/CD

LEDS

- Power
- Status
- WAN
- Local Network – 10/100

Operating Temperature

32°F to 104°F (0°C to 40°C)

Humidity

90% maximum (non-condensing)

Power Input

External power Supply

DC 5V, 1.2A

Dimensions

- L = 5.83 in (148 mm)
- W = 4.5 in (114 mm)
- H = 1.26 in (32 mm)

Weight

0.51 lbs (230g)

Configuring IP Settings on Your Computer

In order to configure your system to receive IP settings from the Router it must first have the TCP/IP protocol installed. If you have an Ethernet port on your computer, it probably already has TCP/IP protocol installed. If you are using Windows XP the TCP/IP is enabled by default for standard installations. Below is an illustrated example of how to configure a Windows XP system to automatically obtain IP settings from the Router. Following this example is a step-by-step description of the procedures used on the other Windows operating systems to first check if the TCP/IP protocol has been installed; if it is not, instructions are provided for installing it. Once the protocol has been installed you can configure the system to receive IP settings from the Router.

For computers running non-Windows operating systems, follow the instructions for your OS that configure the system to receive an IP address from the Router, that is, configure the system to be a DHCP client.

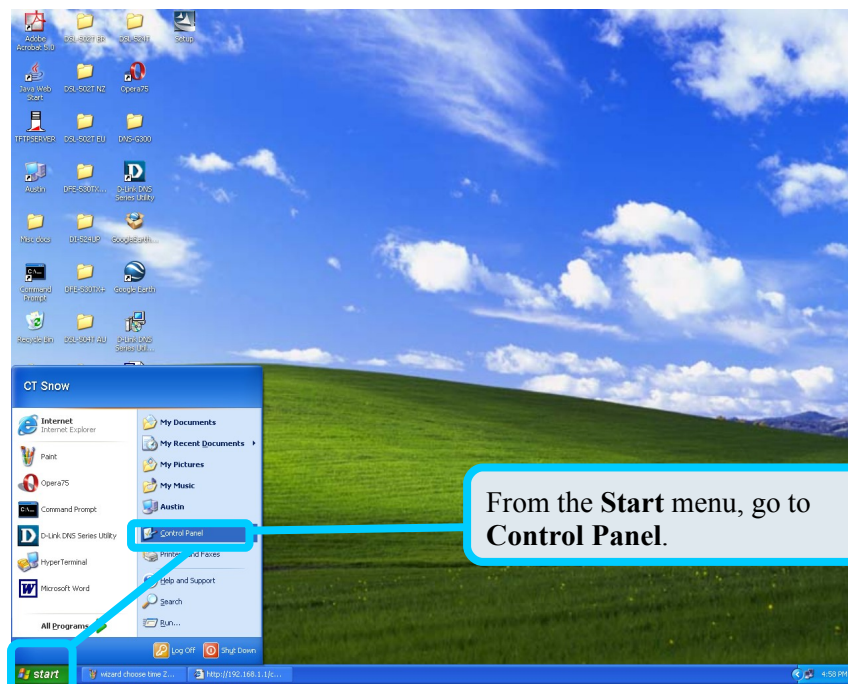


Note: If you are using this Router to provide Internet access for more than one computer, you can use these instructions later to change the IP settings for the other computers. However, you cannot use the same IP address since every computer must have its own IP address that is unique on the local network.

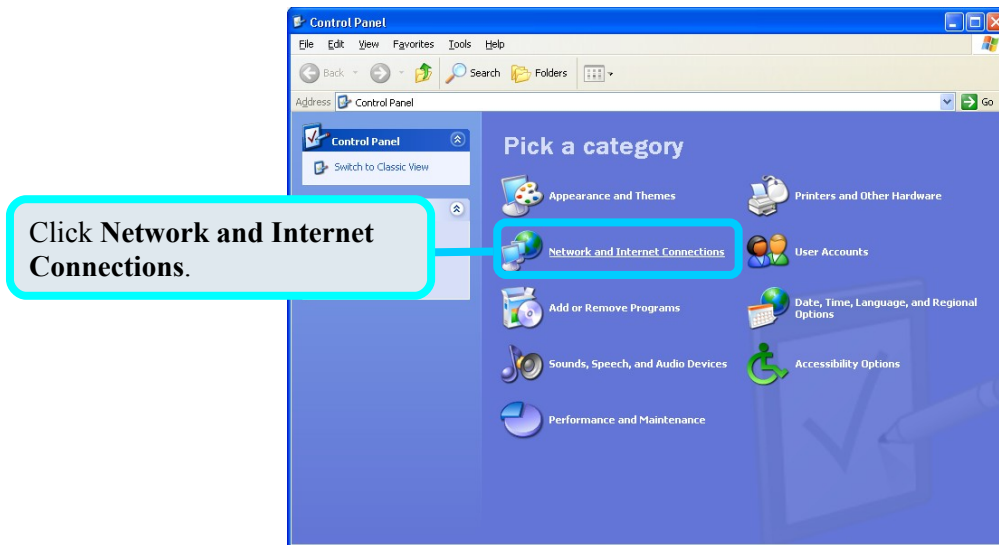
Configure Windows XP for DHCP

Use the following steps to configure a computer running Windows XP to be a DHCP client.

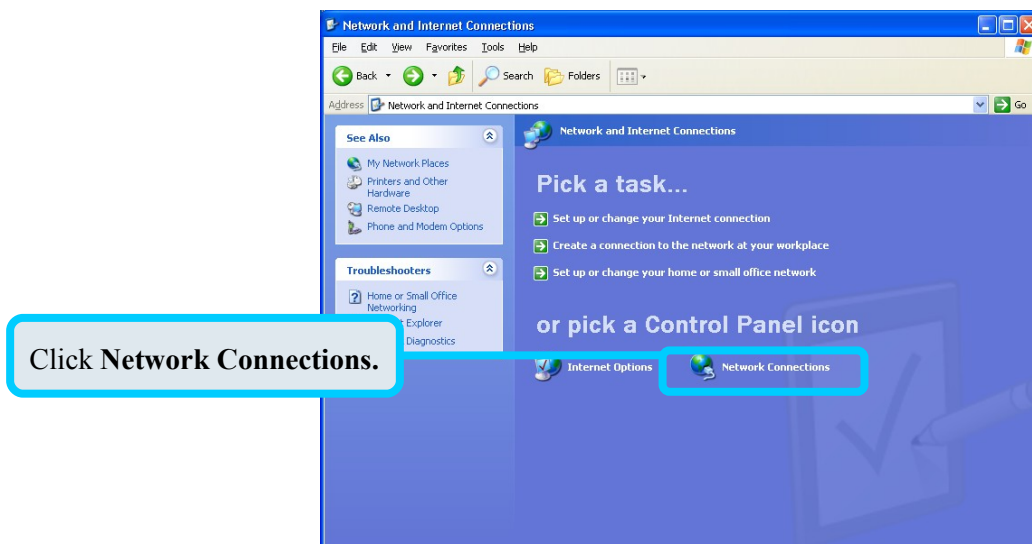
1. From the **Start** menu on your desktop, go to **Control Panel**.



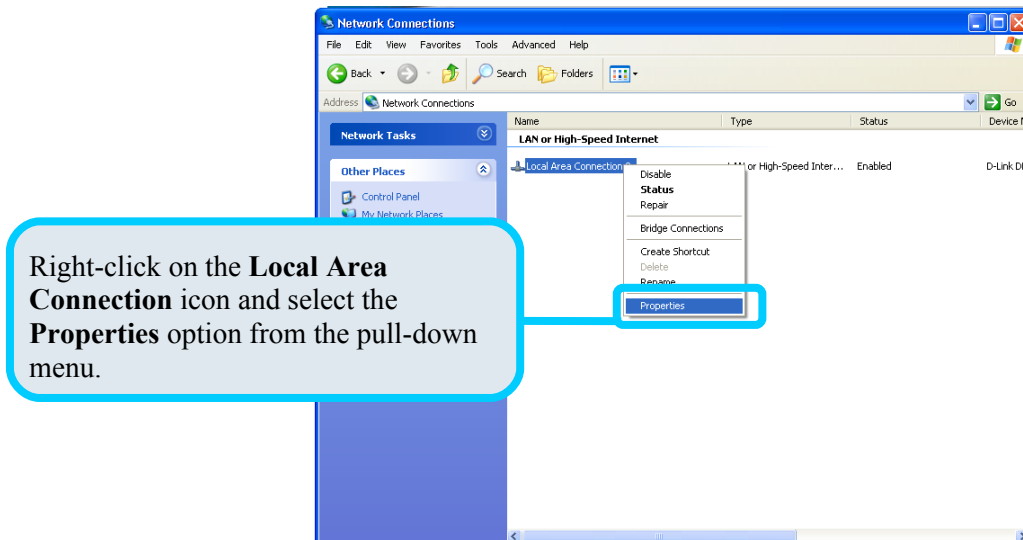
2. In the Control Panel menu, click Network and Internet Connections.



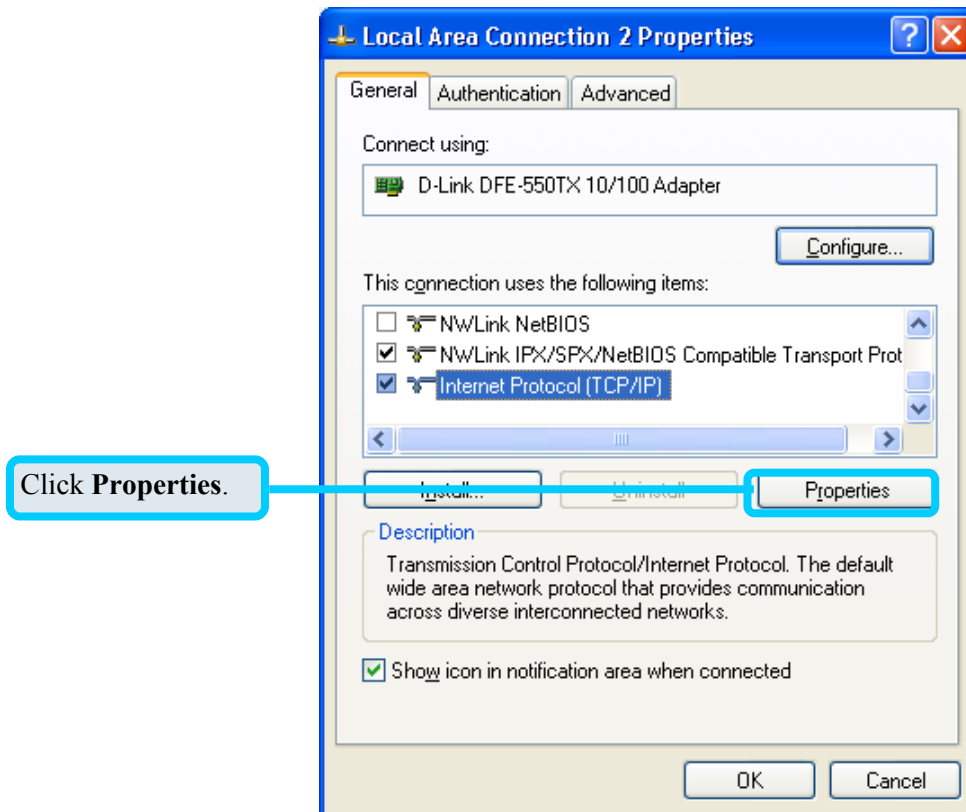
3. In the Network and Internet Connections menu, click **Network Connections**.



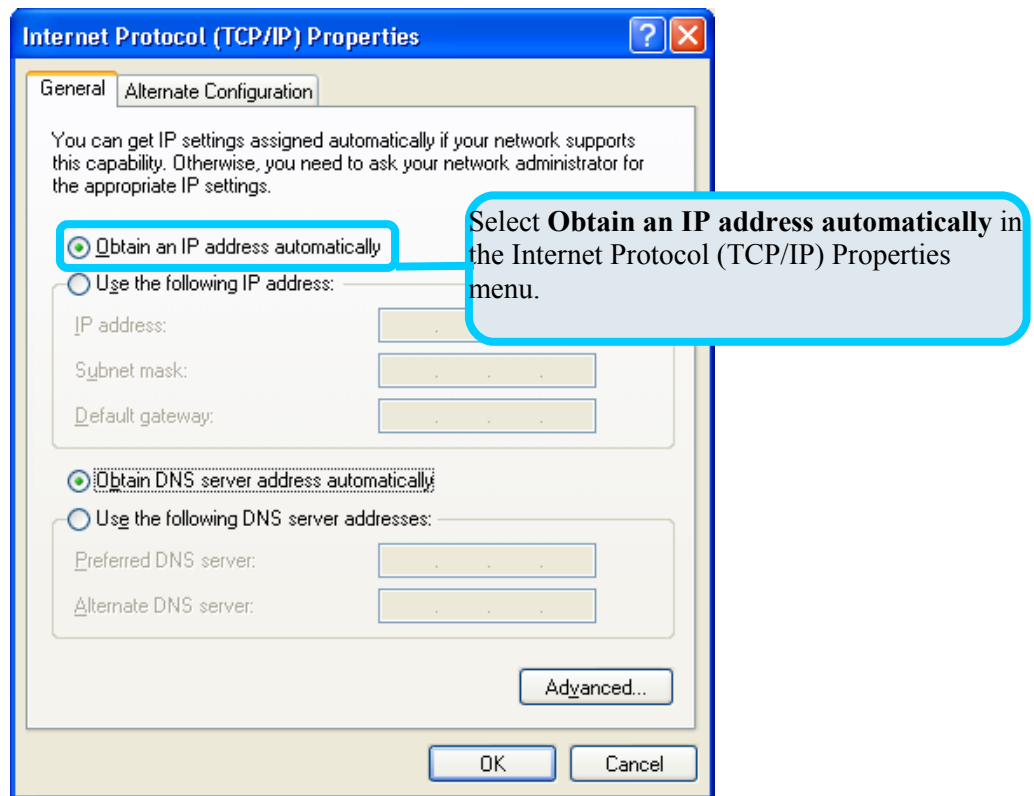
4. In the Network Connections menu, right-click on **Local Area Connection**, then click **Properties**.



5. In the **General** tab of the **Local Area Connection Properties** menu, highlight **Internet Protocol (TCP/IP)** under “This connection uses the following items:” by clicking on it once. Click on the **Properties** button.



Select “Obtain an IP address automatically” by clicking once in the circle. Click the **OK** button



Your computer is now ready to use the Router's DHCP server.

Windows 2000

First, check for the IP protocol and, if necessary, install it:

1. In the **Windows** task bar, click the **Start** button, point to **Settings**, and then click **Control Panel**.
2. Double-click the Network and Dial-up Connections icon.
3. In the Network and Dial-up Connections menu, right-click the Local Area Connection icon, and then select Properties.
4. The **Local Area Connection Properties** dialog box displays with a list of currently installed network components. If the list includes Internet Protocol (TCP/IP), then the protocol has already been enabled, skip ahead to *Configure Windows 2000 for DHCP*.
5. If Internet Protocol (TCP/IP) does not display as an installed component, click **Install**.
6. In the **Select Network Component Type** dialog box, select **Protocol**, and then click **Add**.
7. Select **Internet Protocol (TCP/IP)** in the Network Protocols list, and then click **OK**.
8. You may be prompted to install files from your Windows 2000 installation CD or other media. Follow the instructions to install the files.
9. If prompted, click **OK** to restart your computer with the new settings.

Configure Windows 2000 for DHCP

In the Control Panel, double-click the **Network and Dial-up Connections** icon.

1. In Network and Dial-up Connections menu, right-click the Local Area Connection icon, and then select Properties.
2. In the Local Area Connection Properties dialog box, select Internet Protocol (TCP/IP), and then click Properties.
3. In the Internet Protocol (TCP/IP) Properties dialog box, click the button labeled Obtain an IP address automatically.
4. Double-click **OK** to confirm and save your changes, and then close the Control Panel.

Your computer is now ready to use the Router's DHCP server.

Windows 95 and Windows 98

First, check for the IP protocol and, if necessary, install it:

1. In the **Menus** task bar, click the **Start** button, point to **Settings**, and then click **Control Panel**. Double-click the **Network** icon.
2. The **Network** dialog box displays with a list of currently installed network components. If the list includes TCP/IP, and then the protocol has already been enabled, skip to *Configure IP Information Windows 95, 98*.
3. If TCP/IP does not display as an installed component, click **Add**. The **Select Network Component Type** dialog box displays.
4. Select **Protocol**, and then click **Add**. The **Select Network Protocol** dialog box displays.
5. Click on **Microsoft** in the Manufacturers list box, and then click **TCP/IP** in the Network Protocols list box.
6. Click **OK** to return to the Network dialog box, and then click **OK** again. You may be prompted to install files from your Windows 95/98 installation CD. Follow the instructions to install the files.
7. Click **OK** to restart the PC and complete the TCP/IP installation.

Configure Windows 95 and Windows 98 for DHCP

1. Open the **Control Panel** menu, and then click the **Network** icon.
2. Select the network component labeled TCP/IP, and then click **Properties**.
3. If you have multiple TCP/IP listings, select the listing associated with your network card or adapter.
4. In the **TCP/IP Properties** dialog box, click the **IP Address** tab.
5. Click the Obtain an IP address automatically option.
6. Double-click **OK** to confirm and save your changes. You will be prompted to restart Windows.
7. Click **Yes**.

When it has restarted, your computer is ready to use the Router's DHCP server.

Windows ME

First, check for the IP protocol and, if necessary, install it:

1. In the **Windows** task bar, click the **Start** button, point to **Settings**, and then click **Control Panel**.
2. Double-click the Network and Dial-up Connections icon.
3. In the **Network and Dial-up Connections** menu, right-click the **Network** icon, and then select **Properties**.
4. The **Network Properties** dialog box displays with a list of currently installed network components. If the list includes Internet Protocol (TCP/IP), then the protocol has already been enabled. Skip ahead to *Configure Windows ME for DHCP*.
5. If Internet Protocol (TCP/IP) does not display as an installed component, click **Add**.
6. In the **Select Network Component Type** dialog box, select **Protocol**, and then click **Add**.
7. Select **Microsoft** in the Manufacturers box.
8. Select **Internet Protocol (TCP/IP)** in the Network Protocols list, and then click **OK**.
9. You may be prompted to install files from your Windows Me installation CD or other media. Follow the instructions to install the files.
10. If prompted, click **OK** to restart your computer with the new settings.

Configure Windows ME for DHCP

1. In the Control Panel menu, double-click the Network and Dial-up Connections icon.
2. In the **Network and Dial-up Connections** menu, right-click the **Network** icon, and then select **Properties**.
3. In the **Network Properties** dialog box, select **TCP/IP**, and then click **Properties**.
4. In the TCP/IP Settings dialog box, click the Obtain and IP address automatically option.
5. Double-click **OK** twice to confirm and save your changes, and then close the Control Panel.

Your computer is now ready to use the Router's DHCP server.

Windows NT 4.0 Workstations

First, check for the IP protocol and, if necessary, install it:

1. In the **Windows NT** task bar, click the **Start** button, point to **Settings**, and then click **Control Panel**.
2. In the **Control Panel** menu, double-click the **Network** icon.
3. In the **Network** dialog box, click the **Protocols** tab.
4. The **Protocols** tab displays a list of currently installed network protocols. If the list includes TCP/IP, then the protocol has already been enabled. Skip to "Configure IP Information"
5. If TCP/IP does not display as an installed component, click **Add**.
6. In the **Select Network Protocol** dialog box, select **TCP/IP**, and then click **OK**. You may be prompted to install files from your Windows NT installation CD or other media. Follow the instructions to install the files.
7. After all files are installed, a menu displays to inform you that a TCP/IP service called DHCP can be set up to dynamically assign IP information.
8. Click **Yes** to continue, and then click **OK** if prompted to restart your computer.

Configure Windows NT 4.0 for DHCP

1. Open the **Control Panel** menu, and then double-click the **Network** icon.
2. In the **Network** dialog box, click the **Protocols** tab.
3. In the **Protocols** tab, select **TCP/IP**, and then click **Properties**.
4. In the Microsoft TCP/IP Properties dialog box, click the Obtain an IP address automatically option.
5. Click **OK** twice to confirm and save your changes, and then close the Control Panel.

Your computer is now ready to use the Router's DHCP server.

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